



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/060,326	02/01/2002	Hirokazu Yamauchi	1247-0475P	8014

2292 7590 06/19/2003

BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER

BRASE, SANDRA L

ART UNIT PAPER NUMBER

2852

DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/060,326

Applicant(s)

YAMAUCHI ET AL.

Examiner

Sandra L. Brase

Art Unit

2852

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 03 April 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) 10-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☒ Claim(s) 6-9 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Election/Restrictions*

Applicant's election without traverse of Group I, claims 1-9, in Paper No. 5 is acknowledged.

Claims 10-19 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made **without** traverse in Paper No. 5.

### *Specification*

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2852

4. Claims 2-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Hasegawa et al. (US 5,515,154).

5. Hasegawa et al. (...154) disclose an image forming apparatus comprising: an image carrier (3), rotatably supported, for carrying a toner image; a peripheral rotary body (9) involved in image formation, which is rotatably supported in a periphery of the image carrier; and control means (33 and 93) for controlling displacement of the peripheral rotary body in a direction proximate to the image carrier so as to maintain a predetermined positional relationship between the image carrier and the peripheral rotary body, the control means being so configured that an acting point of impacting force, which is generated in between the image carrier and the peripheral rotary body at a time of image formation, is located on an axis of the image carrier between a position of an axial end portion nearby in which the image carrier is supported (col. 7, lines 18-26; and figure 3). The control means is made of a material having shock absorbency (col. 7, lines 31-40). The control means includes: a first control member (33) loosely fitted to a shaft of the image carrier; and a second control member (93) loosely fitted to a shaft of the peripheral rotary body, the first and second control means abutting against each other (col. 7, lines 18-30; and figure 3). The control means is arranged outwardly away from the axial end portion of the peripheral rotary body (figure 3).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Art Unit: 2852

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hasegawa et al. (US 5,515,154) in view of Yoshinaga et al. (US 6,208,826).

9. Hasegawa et al. (...154) disclose an image forming apparatus comprising: an image carrier (3) for carrying a toner image; and a transfer roller (9) which is arranged in a predetermined positional relation to the image carrier (col. 7, lines 18-26) by control means (33 and 93), wherein the control means is disposed between an axis of the transfer roller and an axis of the image carrier so as to be located outwardly away from an axial end portion of the image carrier (figure 3). However, Hasegawa et al. (...154) do not disclose the transfer roller loaded with a force that tends to move the transfer roller toward the image carrier. Yoshinaga et al. (...826) disclose an image forming apparatus including: an image carrier (1) and a transfer roller (10), which is loaded with a force that tends to move the transfer roller toward the image carrier (col. 7, lines 21-29). It would have been obvious to one of ordinary skill in the art at the time of the invention to have a force load the transfer roller so as to move the transfer roller toward the

Art Unit: 2852

image carrier, as disclosed by Yoshinaga et al. (...826) so as to push the transfer roller toward the image carrier.

***Allowable Subject Matter***

10. Claims 6-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Prior Art***

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kisu (US 5,146,280), Miyake et al. (US 5,258,811), Hayashi et al. (US 5,572,305), Zona (US 6,173,137), Tanaka et al. (US 6,385,417) and Tabuchi (6,405,006) disclose an image forming apparatus including an image carrier and a rotary component where a control means controls the positional relation of the image carrier and the rotary component.

Kawaguchi (US 5,357,325) discloses an image forming apparatus including an image carrier and a transfer roller, where the image carrier transmits a driving power to the transfer roller.

Bhagat (US 5,119,141) and Ito et al. (US 5,250,994) disclose an image forming apparatus including an image carrier and a transfer roller, where the transfer roller is urged toward the image carrier.

Art Unit: 2852

***Contacts \ Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sandra L. Brase whose telephone number is (703) 308-3101.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley, can be reached on (703) 308-1373. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 or 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Sandra L. Brase  
Primary Examiner  
Art Unit 2852

June 16, 2003